Amendments to the claims

Please amend the claims as shown. Applicant reserves the right to pursue any canceled claims at a later date.

1. (original) A method for the surface treatment of a component (1) having a curved component surface (3), comprising:

removing material from the component surface (3) along a contour line on the component surface (3) with a particle jet (7) that is generated from a particle source (5), the particle jet having a blasting distance (d), a blasting intensity, a blasting angle (α) and a blasting time, the particle jet characterized in that at least one of the distance, intensity, angle and time is matched to the contour line in such a way that a homogeneous surface roughness is established along the contour line.

- 2. (original) The method as claimed in claim 1, wherein the matching of the jet parameters takes place automatically.
- 3. (original) The method as claimed in claim 1, wherein the particle source (5) and the component (1) are moved relative to one another.
- 4. (original) The method as claimed in claim 1, wherein the particle source (5) is moved relative to the component (1) in such a way that the blasting distance (d) is constant.

- 5. (original) The method as claimed in claim I, wherein the particle source (5) is moved relative to the component (1) in such a way that the blasting angle (α) is constant.
- 6. (original) The method as claimed in claim 1, wherein the component (1) has a base body (11) with a base material (13), the base body (11) having the component surface (3) which, for a first coating (15) to be applied to the base body (11), is treated with a first coating material (17).
- 7. (original) The method as claimed in claim 6, wherein the first coating material (17) used is an MCrAIX alloy, where M represents one or more elements comprising iron, cobalt and nickel, Cr represents chromium, Al represents aluminum and X represents one or more elements selected from the group consisting of yttrium, rhenium and the rare earths.
- 8. (original) The method as claimed in claim 6, wherein the first coating (15) also has the component surface (3) which, for a second coating (19) to be applied to the component (1), is treated with a second coating material (21).
- 9. (original) The method as claimed in claim 1, wherein the component (1) has a base body (11) with a base material (13), a first coating (15) comprising a first coating material (17) being applied to the base body (11), and the coated component (1), for a second coating (19) to be applied to the component (1), being treated with a second coating material (21).

- 10. (original) The method as claimed in claim 8, wherein, in the coating process, a ceramic is used as the second coating material (21).
- 11. (original) The method as claimed in claim 1, wherein the component (1) is designed for a hot gas to flow around it.
- 12. (original) The method as claimed in claim 1, wherein the component (1) used is a turbine rotor blade (23), a turbine guide vane or a heat shield element (25) of a combustion chamber.
- 13. (original) The method as claimed in claim 1, wherein the blasting angle (α) on the component surface (3) is approximately 20° to 90° .
- 14. (original) The method as claimed in claim 13, wherein the blasting angle (α) on the component surface (3) is approximately 50° to 90° .
- 15. (cancelled)
- 16. (cancelled)
- 17. (cancelled)

18. (original) A method for surface treating a component (1) of a gas turbine having a curved surface (3), comprising:

removing material from the component surface (3) along a contour line on the component surface (3) using a particle jet (7) from a particle source (5) having blasting angle (α) of approximately 20° to 90°, a blasting distance (d), a blasting intensity, and a blasting time,

wherein at least one of the distance, intensity, angle and time of the particle jet (7) is matched to the contour line to establish a homogeneous surface roughness along the contour line.

- 19. (original) The method as claimed in claim 18, wherein the particle source (5) is moved relative to the component (1) in such a way that the blasting distance (d) is constant.
- 20. (original) The method as claimed in claim 18, wherein the particle source (5) is moved relative to the component (1) in such a way that the blasting angle (α) is constant.